INDEX TO VOLUME XXXIII, 1939

A

Adams, Walter S., The 200-inch Telescope, 241.

Agincourt Magnetic Data 1899-1937 and the Sunspot Cycle, *W. E. W. Jackson*, 401.

Albedo of Meteorites, The, 59.

Allin, Elizabeth J., Nuclear Disintegration, 151.

Amateur Telescopes, 340.

Amateurs, Observing for, *Frank S. Hogg*, 44.

American Association of Variable Star Observers, Twenty-eighth Annual Meeting of the, *D. W. Rosebrugh*, 436.

American Geophysical Union Report, Cosmic Terrestrial Relationships, 415.

Ancient Meteorites and the Origin of of the Crescent and Star Emblem, *E. M. Antoniadi*, 177.

Annual Meeting of the Royal Astronomical Society of Canada, 91.

Antoniadi, E. M., On Ancient Meteorites, and on the Origin of the Crescent and Star Emblem, 177; On the Markings of the Satellites of Jupiter in Transit, 273.

Astronomy as a Hobby, *H. Boyd Brydon*, 431.

Astronomy in New Zealand, 447.

Aquarid Meteors, 1938, Photographic Observations, 23; Visual Observations, 17.

Astapowitsch, I. S., Results of the Study of 66 Orbits of Meteorites, 305.

Astronomy in Fiction, 311.

Astronomy, Mathematics and, *William Findlay*, 81.

Aurora of February 24, 1939, The Bright, 166.

Auroral Observations, Request for, *C. W. Gartlein*, 46.

B

Brydon, H. Boyd, A. H. Young's Simple Mounting for the 6-inch Reflector, 185; Astronomy as a Hobby, 431; The Clock Controlled Gravity Drive for Small Telescopes, 379; Two Inexpensive Drives for Small Telescopes, 5. (See also Notes and Queries.)

Buhl Planetarium at Pittsburgh, The, 169.

Burland, Miriam S., Leonid Observations, Ottawa, 1938 (with M. M. Thomson) 217; Summer Meteor Observations at Ottawa (with M. M. Thomson) 21.

C

Calendar, Folk-lore of the, *Wade Poston, Jr.*, 324.

Celestial Kinematography, *R. M. Petrie*, 33.

Chant, C. A., Forest Cover and Water Supply, 13. (See also Notes and Queries and Reviews.)

Chinese Astronomy Decides the Diffusion-of-Culture Controversy, Unity of Maya and, *W. D. Lighthall*, 1.

Clock Controlled Gravity Drive for Small Telescopes, *H. Boyd Brydon*, 379.

Colgrove Planet Placer, The, 312.

Colgrove, W. G., Committee's Report on Dresden Meteorite (with E. G. Pleva), 303; The Dresden Meteorite, 301.

Colours on Jupiter, *Walter H. Haas*, 283.
Comets: Cosik-Peltier, 74, 117; Faye, 394; Friend, 395; Hassel, 227; Kaminsky, 263; Rigollet, 263, 336; Tuttle's, 337; Väisälä, 170, 229.
Concerning Space, *A. T. DeLury*, 39.
Copernican Theories, The Ptolemaic and, 166.
Cosmic Terrestrial Relationships, *American Geophysical Union Report*, 415.
Currie, B. W., Earth-currents, 313.

D

David Dunlap Observatory, Communications, 384; Tree Planting at the, 227; Winter Conditions at the, 171.
Dearborn Observatory, Moving of, 337.
DeLury, A. T., Concerning Space, 39.
DeLury, Ralph E., The Law of the Solar Rotation, 345.
Diffusion-of-Culture Controversy — Unity of Maya and Chinese Astronomy Decides it, *W. D. Lighthall*, 1.
Dominion Astrophysical Observatory, Notes from the, 31, 230, 392.
Dravert, P. L., A New Iron Meteorite from Kazakhstan, U.S.S.R., 51; Some Lost Meteorites of the U.S.S.R., 53.
Dresden Meteorite, The, 264, 308, 387; *W. G. Colgrove*, 301; *E. G. Pleva and W. G. Colgrove*, 303.

E

Earth-currents, *B. W. Currie*, 313.
Earth Split, When the, 339, 449.
Emblem, Ancient Meteorites and the Origin of the Crescent and Star, *E. M. Antoniadi*, 177.

F

Fellowships for Canada, John Simon Guggenheim, 262.
Few Florida Notes, A, 167.
Findlay, William, Mathematics and Astronomy, 81.
Folk-lore of the Calendar, *Wade Poston, Jr.*, 324.
Forest Cover and Water Supply, *C. A. Chant*, 13.
Fundamental Research, An Appeal for, 395.

G

Gaposchkin, Sergei, The Masses of the Stars, 233.
Garneau, DeLisle, My Work with the Telescope, 251.
Gartlein, C. W., Request for Auroral Observations, 46.
Geminid Meteors 1938, Observations of the Orionid and, 162.
Goose Lake Meteorite, The, *Earle G. Linsley*, 265.
Griffith, B. A. (see Reviews).
Guggenheim Fellowships for Canada, 262.

H

Haas, Walter H., Colours on Jupiter, 283; Observations of Saturn, 1936-8, 247.
Hanson, Herbert E., The New Telescope Drive at the Harvard Observatory, 329.
Harper, W. E. (see Notes and Queries).
Harvard Observatory, 1839-1939, 338; The New Telescope Drive at the, *Herbert E. Hanson*, 329.
Harvard Summer Conference on Astronomy, 168.
Heard, John F., Five Newly Discovered Be Stars, 384 (see also Notes and Queries and Reviews).
Herschel's Observatory House, Preservation of, 169.
Hodgson, Ernest A., The Seismic Method of Prospecting, 121.

Hogg, Frank S., Observing for Amateurs, 44 (see also Notes and Queries and Reviews).
Hogg, Helen Sawyer, The Dedication of the McDonald Observatory, 201 (see also Notes and Queries).

I

In Florida Again, 119.
Italian Research Observatory, A New, 226.

J

Jackson, W. E. W., Agincourt Magnetic Data 1899-1937 and the Sunspot Cycle, 401.
John Simon Guggenheim Fellowships for Canada, 262.
Johnson, Hugh M., A Map of Mercury in 1936-1938, 210.
Jupiter, Colours on, *Walter H. Haas*, 283.
Jupiter in Transit, On the Markings of the Satellites, *E. M. Antoniadi*, 273.

K

Kinematography, Celestial, *R. M. Petrie*, 33.

L

Lectures before the Society:

EDMONTON CENTRE—The Telescope, *W. E. Mjolsness*, 79; Solar Prominences (film) 79; Variable Stars, *E. H. Gowan*, 79; Influence of Astronomy on the Thoughts and Actions of the Man in the Street, *C. S. Burgess*, 80; Eclipses, *M. J. Hilton*, 269; Book Review "Astronomy for the Millions" by van den Bergh, *A. J. Cook*, 269; Meteorites, *J. A. Allan*, 270; Annular Eclipse of the Sun on April 19th, *J. W. Campbell*, 270; Mars, *A. A. Gibb*, 270.

MONTREAL CENTRE—Life and Scientific Work of Sir Isaac Newton, *N. B. MacLean*, 271; Newly Found Data on Mayan Chronology, *W. D. Lighthall*, 271; The Cyclotron, *J. S. Foster*, 271; The Mythology of the Constellations, *W. D. Woodhead*, 271; The 200-inch Telescope, *R. M. Motherwell*, 271.

OTTAWA CENTRE—The Two Hundred Inch Telescope, *R. M. Motherwell*, 342; The Study of Astronomy, *John A. Marsh*, 342; Current Research at the David Dunlap Observatory, *J. F. Heard*, 343.

TORONTO CENTRE—Progress on the 200-inch Telescope, *G. H. Tidy*, 75; Cosmic Action, *P. M. Millman*, 75; Star Legends of the American Indian, *A. F. Bunker*, 174; The Depths of Space, *P. M. Millman*, 174, 175, 176; Recent Advances in Nuclear Physics, *Elizabeth Allin*, 175; Recent Investigations of the Aurora, *Wendell Hewson*, 175; More Movies, Astronomical and Otherwise, shown by *R. H. Combs*, 267; Meteoric Matter of Space, *P. M. Millman*, 267; Some Surprising Stars, *D. W. Best*, 268; Astronomical Highlights and Sidelights, *P. M. Millman*, 269; Rapidly Changing Views in Astronomy, *J. R. Collins*, 399; Motions—Terrestrial and Celestial, *F. S. Hogg*, 400.

VANCOUVER CENTRE—Astronomical and University Motion Pictures, 76; Astronomical Motion Pictures, *Andrew McKellar*, 76; Modern Methods of Determining Time and Geographical Position, *C. A. McDonald*, 77; Low Temperatures, *Harold D. Smith*, 78; Exceptions to the Rule in Astronomy, *Walter H. Gage*, 343; The Age of Giants, *C. S. Beals*, 344.

VICTORIA CENTRE—Origins of the Fauna of British Columbia, *Ian M.*

Cowan, 173; Pacific Coast Storms, *W. A. Thorne*, 173; The Age of Giants, *C. S. Beals*, 232; Some Recent Developments in the Low Temperature Field, *H. D. Smith*, 266; Illustrated Travelogue, *W. E. Harper*, 266.

Leonid Observations, Ottawa, 1938, *M. M. Thomson and Miriam S. Burland*, 217.

Lick Observatory, An Airplane Hits the, 264.

Lighthall, W. D., The Diffusion-of-Culture Controversy—Unity of Maya and Chinese Astronomy Decides it, 1.

Linsley, Earle G. (see Notes and Queries).

Luby, William A., The Problem of Mira, 255.

Lunar Rainbows, 29.

M

McDonald Observatory, The Dedication of the, *Helen Sawyer Hogg*, 201; The 82-inch Mirror of the, 116.

MacTaggart, H. A., Removing the Glare, 213.

Magnetic Data 1899-1937 and the Sunspot Cycle, Agincourt, *W. E. W. Jackson*, 401.

Masses of the Stars, The, *Sergei Gaposchkin*, 233.

Mathematics and Astronomy, *William Findlay*, 81.

Mathematics and Poetry, 72.

Maya and Chinese Astronomy Decides the Diffusion-of-Culture Controversy, Unity of, *W. D. Lighthall*, 1.

Mercury in 1936-1938, A Map of, *Hugh M. Johnson*, 210.

Meteor News, 17, 51, 113, 162, 217, 260, 301, 387, 439.

Meteor Observations at Ottawa, Summer, *M. S. Burland and M. M. Thomson*, 21.

Meteor Observations, South African, Oct.-Dec., 1938, 65; Dec. 1938-Apr. 1939, 220; Apr.-May, 1939, 260.

Meteor Trains Observed in Bologna, October-November, 1939, Persistent, 441.

Meteor Trains Observed in Orillia, Persistent, 439.

Meteoric Research, News from the Soviet Union Concerning, 57.

Meteorite from Kazakhstan, U.S.S.R., A New Iron, *P. L. Dravert*, 51.

Meteorite, The Dresden, 264, 308, 387, *W. G. Colgrove*, 301, *E. G. Pleva and W. G. Colgrove*, 303.

Meteorite, The Goose Lake, *Earle G. Linsley*, 265.

Meteorites and the Origin of the Crescent and Star Emblem, Ancient, *E. M. Antoniadi*, 177.

Meteorites for 1938, Russian, 444.

Meteorites of the U.S.S.R., Some Lost, *P. L. Dravert*, 53.

Meteorites, Results of the Study of 66 Orbits of, *I. S. Astapowitsch*, 305.

Meteorites, The Albedo of, 59.

Meteorological Meeting, An Important, 119.

Meteors: Aquarids, 17, 23; Geminids, 162; Leonids, 217; Orionids, 113, 162; Perseids, 17, 23, 309.

Meteors Observed near Bologna July-August 1939, Bright, 387.

Milky Way, Our Own Island Universe, 72.

Millman, P. M. (see Meteor News, Notes and Queries and Reviews).

Mira, The Problem of, *William A. Luby*, 255.

Mounting for the 6-inch Reflector, A. H. Young's Simple, *H. Boyd Brydon*, 185.

N

Northcott, Ruth J. (see Notes and Queries).

Not in Florida, 171.
Notes and Queries, 29, 72, 115, 166, 226, 262, 310, 336, 392, 447.
Nuclear Disintegration, *Elizabeth J. Allin*, 151.

O

Obituaries: Rodés, Father Luis, 310; Todd, David, 262.
Observatory, A New Italian Research, 226.
Observing for Amateurs, *Frank S. Hogg*, 44.
Orionid and Geminid Meteors, 1938, Observations of the, 162.
Orionid Observations made in Bologna, 1938, 113.

P

Perseid and Aquarid Meteors, 1938, Photographic Observations, 23; Visual Observations, 17.
Perseid Campaign, Preliminary Report on the, 309.
Petrie, R. M., Celestial Kinematography, 33.
Pleva, E. G., Committee's Report on Dresden Meteorite (with W. G. Colgrove), 303.
Poston, Wade, Jr., Folk-lore of the Calendar, 324.
Prospecting, The Seismic Method of, *Ernest A. Hodgson*, 121.
Ptolemaic and Copernican Theories, The, 166.
Publications, Two New Series of, 226.
Pulkova Observatory, Centenary of, 263.

R

Reflector, A. H. Young's Simple Mounting for the 6-inch, *H. Boyd Brydon*, 185.
Removing the Glare, *H. A. MacTaggart*, 213.
Request for Auroral Observations, *C. W. Gartlein*, 46.
Reviews of Publications:
Abetti, Giorgio, Missione italiana in Siberia per osservare l'eclisse solare del 19 giugno 1936, *J.F.H.*, 27.
Abetti, Giorgio, and others, L'eclisse di sole del 19 giugno 1936 osservata nell U.R.S.S., *J.F.H.*, 27.
British Astronomical Association, Who's Who in the Moon, *C.A.C.*, 67.
Chandrasekhar, S., An Introduction to Stellar Structure, *F.S.H.*, 68.
Cohn, B., Tables of Addition and Subtraction Logarithms, with Six Decimals, 2d ed., *F.S.H.*, 223.
Gaposchkin, Cecilia Payne, and Sergei Gaposchkin, Variable Stars, *F.S.H.*, 164.
H.M. Nautical Almanac Office, Planetary Co-ordinates for the Years 1940-1960, *R.K.Y.*, 445.
H.M. Nautical Almanac Office, Seven Figure Trigonometrical Tables for every Second of Time, *F.S.H.*, 445.
Johnstone, J. D., Astronomy for the Benefit of Mankind, *P.M.M.*, 223.
Lee, Oliver Justin, Beyond Yonder, *F.S.H.*, 334.
Littrow, J. J. von, Die Wunder des Himmels, *F.S.H.*, 26.
Mayall, R. Newton and Margaret L. Mayall, Sundials, *F.S.H.*, 222.
Miller, J. C. P., Tables for Converting Rectangular to Polar Co-ordinates, *F.S.H.*, 334.
Milne-Thomson, L. M., Theoretical Hydrodynamics, *B. A. Griffith*, 70.
Puig, Ignacio, Actualidades Cientificas, *C.A.C.*, 446.
R. Università degli studi di Firenze, Pubblicazioni, fasc.n. 56, *J.F.H.*, 27.

Shively, L. S., An Introduction to Modern Geometry, *G. de B. Robinson*, 333.
Viaro, Maria, Orbita definitiva della Cometa 1910 IV (Metcalf), *J.F.H.*, 27.
Wylie, C. C., Our Starland, *P.M.M.*, 224.
Robinson, G. de B. (see Reviews).
Rodés, Father Luis (obituary) 310.
Rosebrugh, D. W., Twenty-eighth Annual Meeting of the A.A.V.S.O., 436.
Royal Astronomical Society of Canada, Annual Meeting, 91; Elected Members-at-Large during 1939, 398; Summer Activities at Victoria Centre, 336; Toronto Centre Variable Star and Nova Programme, 1938 Observations, *Ruth J. Northcott*, 115.
Russell, Henry Norris, Stellar Energy, 287.

S

Satellites of Jupiter in Transit, On the Markings of the, *E. M. Antoniadi*, 273.
Saturn, 1936-8, Observations of, *Walter H. Haas*, 247.
Scout Cyclorama, The Starman's Badge at the, 447.
Seismic Method of Prospecting, The, *Ernest A. Hodgson*, 121.
Society for Research on Meteorites, 117.
Solar Rotation, The Law of the, *Ralph E. DeLury*, 345.
Space, Concerning, *A. T. DeLury*, 39.
Starman's Badge at the Scout Cyclorama, The, 447.
Stars, Five Newly Discovered Be, *John F. Heard*, 384.
Stars, The Masses of the, *Sergei Gaposchkin*, 233.
Stellar Distances—A Creditable Record, 30.
Stellar Energy, *Henry Norris Russell*, 287.
Sunspot Cycle, Agincourt Magnetic Data 1899-1937 and the, *W. E. W. Jackson*, 401.
Sutherland, Alex. H., The Telescope (poem) 16.

T

Telescope Drive at the Harvard Observatory, The New, *Herbert E. Hanson*, 329.
Telescope, My Work with the, *DeLisle Garneau*, 251.
Telescope, Rubber in the 200-inch, 395.
Telescope, The (poem), *Alex. H. Sutherland*, 16.
Telescope, The 200-inch, *Walter S. Adams*, 241.
Telescopes, Amateur, 340.
Telescopes, The Clock Controlled Gravity Drive for Small, *H. Boyd Brydon*, 379.
Telescopes, Two Inexpensive Drives for Small, *H. Boyd Brydon*, 5.
Thomson, Andrew (see Notes and Queries).
Thomson, M. M., Leonid Observations, Ottawa, 1938 (with M. S. Burland) 217; Summer Meteor Observations at Ottawa (with M. S. Burland) 21.
Todd, David (obituary) 262.
Two Inexpensive Drives for Small Telescopes, *H. Boyd Brydon*, 5.

V

Venus Condescends to Help in Mundane Affairs, 30.

W

Water Supply, Forest Cover and, *C. A. Chant*, 13.
What of the Future? 396.

Y

Young, R. K. (see Reviews).
Young's Simple Mounting for the 6-inch Reflector, *H. Boyd Brydon* 185.